The Installation, Care and Use of Your New

Steamin' Hot

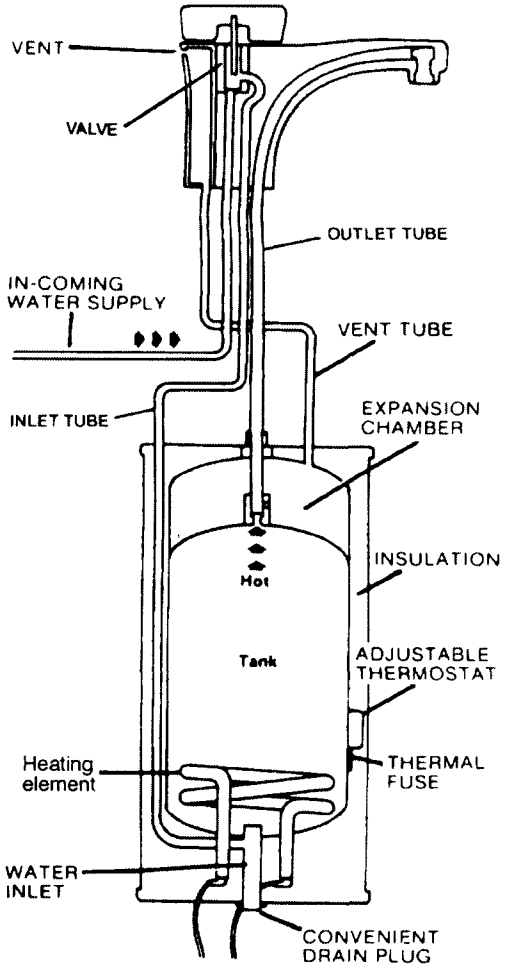
Models H-770 and H-778
Hot Water Dispenser

Safety Instructions

⚠WARNING Warnings alert you to hazards or unsafe practices which could result in severe personal injury or death.

⚠CAUTION Cautions alert you to hazards or unsafe practices which could result in minor personal injury or product/property damage.

Please be certain that the person who installs or uses this appliance carefully reads and understands the Safety Instructions contained in this manual. This appliance produces extremely hot water. Do not allow children to operate this appliance.



How your hot water dispenser works

Water is electrically heated to a brewing/cooking hot 190°F (88° C)* by a compact tank that mounts under the sink. A thermostat maintains it at this approximate temperature. When you turn the tap, cold water enters the bottom of the tank and forces hot water out of the faucet. The system is vented so the tank is not pressurized.

GETTING READY TO INSTALL YOUR HOT WATER DISPENSER

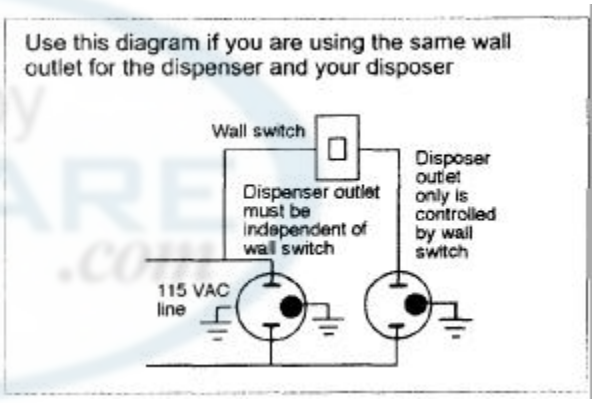
*APPROXIMATE

Important
Do not install this appliance in public areas where there is unsupervised access to this appliance.

What Should You Know Before You Begin

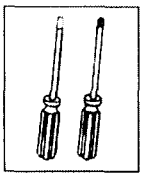
Connecting the dispenser to your regular water supply requires no special plumbing. All details are covered in the installation instructions. Be sure that all plumbing connections conform to your applicable local codes. If your water supply contains sand, grit or other suspended particles, the use of a filter is recommended. The filter should not result in the water pressure to the dispenser dropping below 20 pounds per square inch (138kPa). This could prevent the unit from aspirating properly.

A standard 115-volt grounded electrical outlet is required under the sink for the dispenser's electrical power. The current drain is 6.5 amps only when the tank is heating. Assure that all electrical wiring and connections conform to applicable codes. ***Note: The wall outlet to your dispenser must have power supplied to it continuously and must be fused. It should not be controlled by the same wall switch that operates your disposer.***

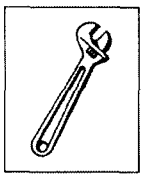

Use this diagram if you are using the same wall outlet for the dispenser and your disposer
Wall switch
Disposer outlet only is controlled by wall switch
Dispenser outlet must be independent of wall switch
115 VAC line

These are the tools and materials you will need

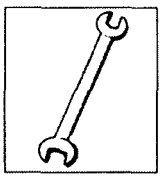
Pliers



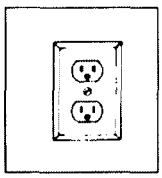
Screwdrivers. Phillips and flat blade



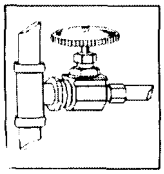
Adjustable wrench



1/2" - 9/16" open end wrench

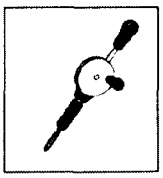


115-volt grounded outlet within 30 inches (76 cm) of the dispenser

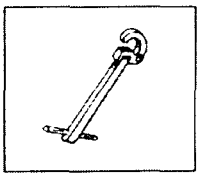


Cold water line within 2' (61cm)of the dispenser. A shutoff valve to connect the dispenser to the cold water line (see step 4 for examples of connections that can be used).

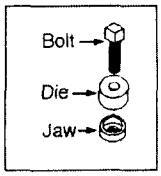
These are the tools you may need



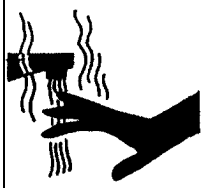
Hand drill. If you have a galvanized water supply pipe, you may need a non-electric hand drill to make a small hole.



Basin wrench. If you intend to use the hand sprayer hole in your sink for your dispenser, you may need a basin wrench and a 1/8" plug or a 1/4" cap for the faucet spray hose line. See item 1 of Installation instructions for details.



Chassis punch. If you need to punch a mounting hole in your stainless steel sink you may need a 1-1/4" (3.2 cm) chassis punch.



⚠ WARNING

Personal Injury

- Dispenses 190°F (88° C) water which can instantly cause scalds or burns. Use care when operating this feature.
- Do not allow children to operate this appliance.

⚠ WARNING

Fire Hazard

- To minimize possibility of fire, do not store flammable items such as rags, paper or aerosol cans near the tank. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

⚠ WARNING

Personal Injury

- This tank is a non-pressure tank. Do not modify this system. Do not close vent tube or connect other type faucets or valves to the tank.
- Use only the faucet supplied.

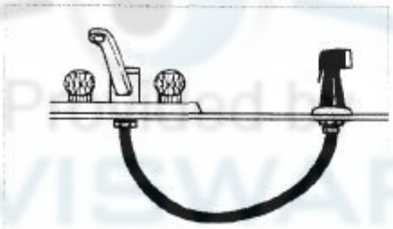
Important

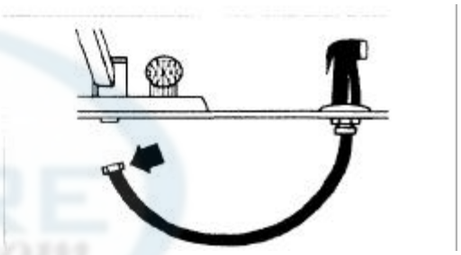
- Any time you plan on being away from home for an extended period of time, unplug the unit's electrical cord.
- If your unit is installed in a summer home and you want to prepare it for winter to protect against freezing or if periodic draining is necessary in a heavy mineral area, follow these steps:
  - A. Disconnect electricity.
  - B. Turn dispenser knob and allow the water to flow until cool.
  - C. Shut off the dispenser water supply at the outlet valve.
  - D. Remove the drain screw located in the center of the bottom of your dispenser tank and drain the water into an empty pail.
  - E. After emptying the tank, reinstall screw into bottom of tank.
  - F. When you put the unit back into operation, be sure to refill tank with water before reconnecting the electrical plug. Review step #9.

OK... Let's get on with the installation

FIRST, LET'S REMOVE YOUR EXISTING

1

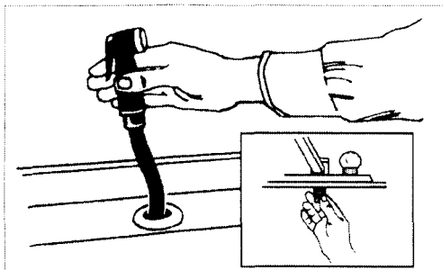




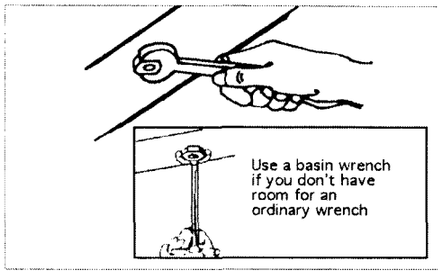
A If you have a spray unit like this one on your kitchen sink, the hole is perfect for mounting your Hot Water Dispenser's head.

B A nut connects the spray hose to a tube at the bottom of your faucet. FIRST, BE SURE FAUCET IS TURNED OFF. Then remove this nut.

RINSE SPRAY AND HOSE



C Now pull the spray head and hose entirely out Of the hole. Then plug the faucet tube opening With either a 1/8" plug or 1/4" cap (not supplied).



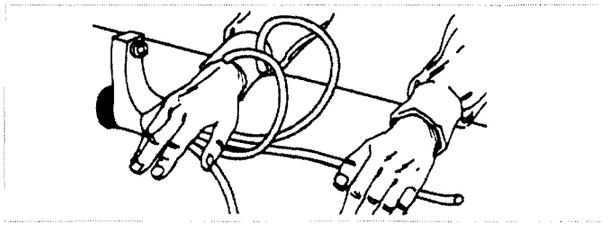
D Next, remove the nut from the bottom of the washer flange in the spray hole. If you don't Have enough room for an ordinary wrench, you May need a basin wrench.

What if you don't use a sprayer hole?

You can cut a mounting hole through a stainless steel sink with a 1-1/4" (32mm) chassis punch. Rent or purchase one at your hardware or electrical supply store. Or, mount the Hot Water Dispenser's head in a 1-1/4" (32mm) hole drilled through your countertop with an expandable wood bit. Don't attempt to drill a hole through a cast iron or porce-lain covered sink unless you have the proper tools and skills.

STRAIGHTEN THE DISPENSER TUBES

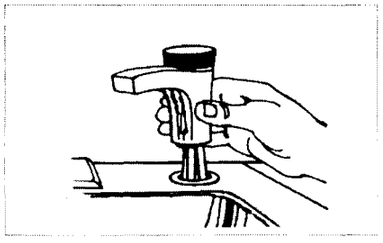
2



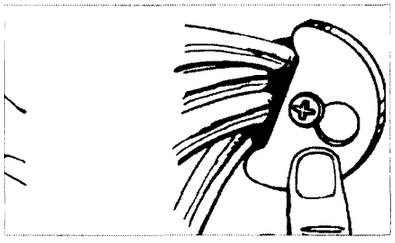
The tubes to the dispenser head are curved for easier packing and shipping. To straighten, hold the head down with one hand while working the lubes down slowly with your other hand. See Caution, step 8.

NOW, WE INSTALL THE DISPENSER HEAD

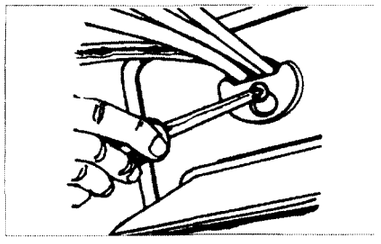
3



A Place the dispenser head with #10-24 mount-ing screw and gasket attached down through the mounting hole. Then while an assistant holds the dispenser head in place, secure the head as shown in steps B and C.



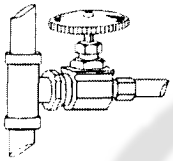
B Working from below sink, place semi-circular metal mounting washer over the mounting screw.



C Now, simply tighten the screw and your dis-penser head will be secured to the sink.

4 LET'S MAKE THE WATER CONNECTION

Connect to the cold water supply line



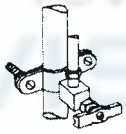
The recommended connection can be made using a shutoff valve. This is a more complex installation and should only be attempted by an experienced installer with the proper knowledge and tools.

CAUTION

Product Damage

- Do not use paste-type pipe sealants on water line connections.

Doing so may result in clogging of water passages.



Where plumbing codes permit, a saddle valve (not supplied) can be used to supply water to the dispenser.

If the saddle valve is to be used on copper pipe it is not necessary to pre-drill any holes. Simply follow the directions for "self-piercing attachment" included with the valve.

(Attach the valve to a cold water supply line)

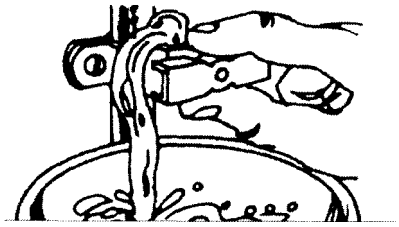
Note: Saddle valves are susceptible to clogging.

WARNING

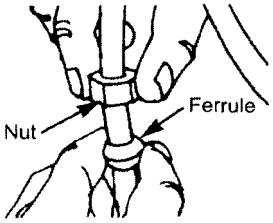
Electric Shock Hazard

- Never use an electric drill to drill into water pipes. It can result in an electric shock. Use a non-electric hand drill.

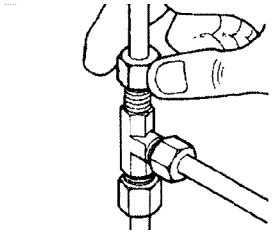
5 NOW, LETS CONNECT THE WATER TO DISPENSER HEAD



Before you start, open the valve and let a small amount of water run through it into a pan. This will flush the line of any sediment.

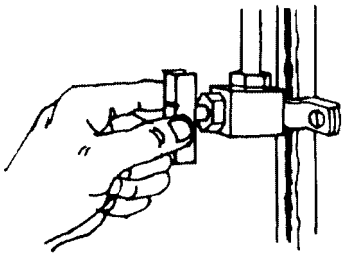


When connecting to a compression type fitting tee or valve, remove the nut and ferrule (a rounded brass fitting) from the valve. Then, place the nut followed by the ferrule over the end of the longest copper tube coming from the dispenser head.

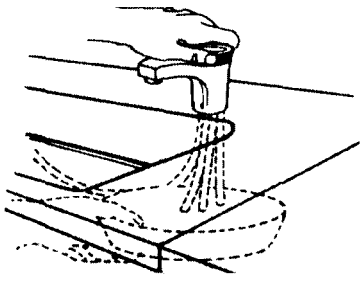


Push the tube end all the way into the valve opening or tee fitting. Hold the tube end in position and push the ferrule down as far as it will go. Now, tighten the nut over the ferrule with your fingers. Make sure the tube end is going straight into the hole. Then tighten the nut firmly with a 1/2" wrench.

6 TIME TO TEST YOUR WATER CONNECTION



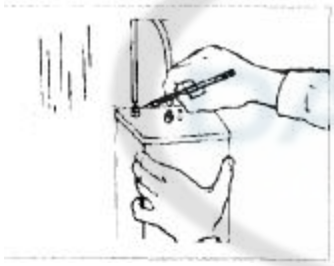
Open the valve all the way and see if your connection is watertight. If it isn't, redo your connection.

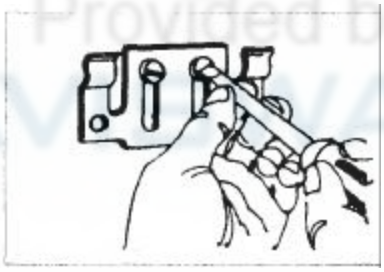


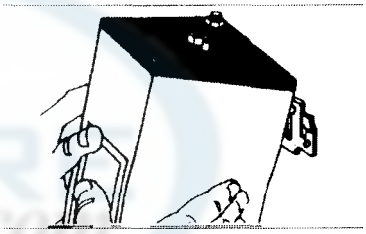
Place a pan under the unattached tubes and have your handy assistant turn the knob on the faucet. You should see water coming out of the small copper tube. Let the water run for a few seconds to flush out the lines, then tell your assistant to turn the faucet off.

NOW, LET'S MOUNT THE TANK

7







A Mount the tank on either a back or side wall. Start by holding tank up and making sure the tubes reach it. When you have decided where you want to mount the tank, mark the position of the top of the tank on the wall with a pencil. Allow sufficient space for drain screw access.

B Position the metal mounting bracket about one inch (25mm) below the mark on the wall and attach it through the slots with the two screws provided. The use of (2) #8 plastic anchors (not provided) is recommended for mounting screws in any material other than wood.

C Hang the tank on the bracket. There is room to adjust the bracket, if necessary.

CAUTION

Product damage

- Do not connect electric power until tank is filled with water (step 9).
- Failure to do so may damage heating element or thermal safety fuse and will void your warranty.

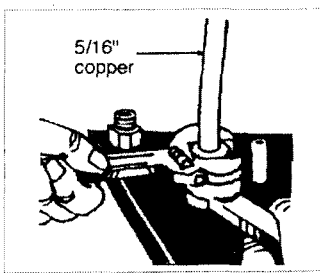
LET'S MAKE THE FINAL PLUMBING CONNECTIONS

8

CAUTION

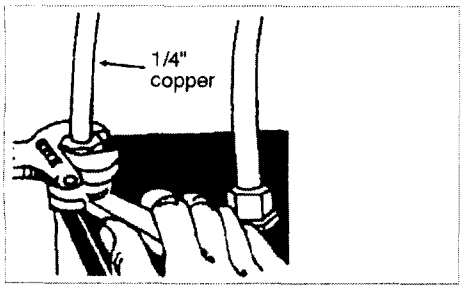
Flow restriction

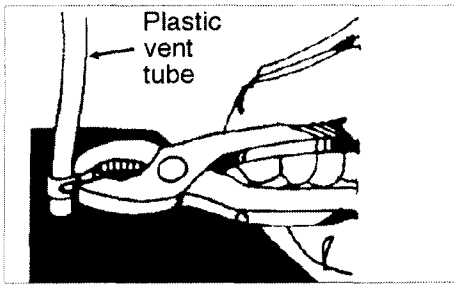
Make sure all bends in the tubes are smooth and unkinked before you proceed. All connections are compression fittings, so don't use any sealant compound. Make the fittings snug, but don't overtighten. Do not extend the two water lines to the tank beyond the 16" (40cm) provided.



A Two copper tubes remain unconnected. Attach the tube with the larger diameter to the fitting in the center of the tank exactly the way you attached the tube in step 5.

Nuts and ferrules for both unconnected copper tubes are in the plastic bag in your dispenser kit.

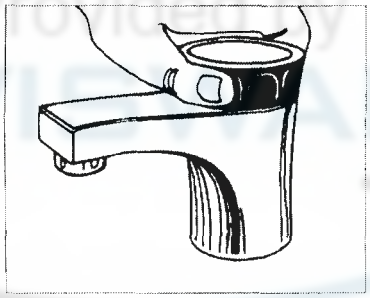




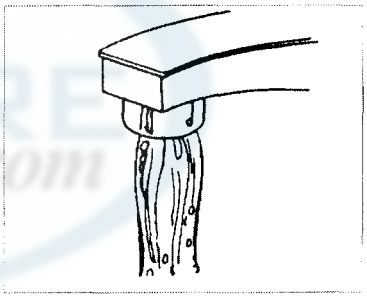
Note: The clear plastic tube in Step C is a vent line. Insure it is not twisted or obstructed.

FILL THE TANK...IT'S READY

9



A Make sure the water supply valve is turned on. Then turn the dispenser knob and hold it open.



B After about one minute, the tank will fill and water will begin coming out of the faucet. Turn off the faucet and check all connections for leaks.

DO NOT PLUG IN YET!

WARNING

Fire/Product Damage

Do not remove or alter the thermal safety fuse.
If you suspect the thermal fuse is open, contact your Authorized Service Center

WARNING

Product Damage

Do not connect electric power until tank is filled with
Failure to do so may damage heating element or fuse and will void your warranty.

Until you have read and understood the following:

Once the electrical cord is plugged in, it will take ten to 15 minutes for the water to reach its 190°F (88°C)* temperature.

However, when the 190°F (88°C)* temperature is being reached, you can expect a gurgling or hissing sound within the tank which is normal. You might also experience steaming and/or spitting hot water to come out of the faucet without turning it on. This also is a normal function on any initial start up.

Now, carefully turn on the faucet for about 20 seconds to draw off that steaming water and allow the water in the tank to reheat. Repeat this step one or two more times. This allows the functional parts of the dispenser to heat up evenly and work in balance, preventing the steaming and spitting condition. If steam is still emitted from the faucet, a thermostat adjustment may be necessary to slightly decrease the water temperature. (See adjusting temperature procedure). Your dispenser should now be operating properly.

Note: The dispenser perks like a coffee percolator just before the electric thermostat shuts it off. The rumble is caused by gas bubbles being driven off by the boiling water. This is part of the regular operation or the dispenser.

High altitudes: High elevations (Denver, Colorado, etc.) may require the thermostat to be lowered to keep the water from boiling (see adjusting temperature procedure).

*APPROXIMATE

Model H-778 Commercial Model only:

This model comes with a 4" chrome extension sleeve for the tap. To attach, slide the sleeve up and over the copper tubes and insert it into the bottom of the tap assembly as shown. (No gasket is provided). Then follow step 3 to attach to sink, using longer screw provided.

Specifications

Capacity
1/2 gallon (1.9L), up to 60 cups of 190°F (88"C) water per hour. Model 778: 100 cups per hour.

Electrical
750 watts, 6.5 amps, 115 volts A.C. Grounding 3-wire cord and plug provided. Model 778: 1300 watts, 11.3 amps, 115 volts A.C.

Thermostat
Snap-action, adjustable from 140°F to 200°F (60° to 94°C). Factory pre-set at approximately 190°F (88°C).

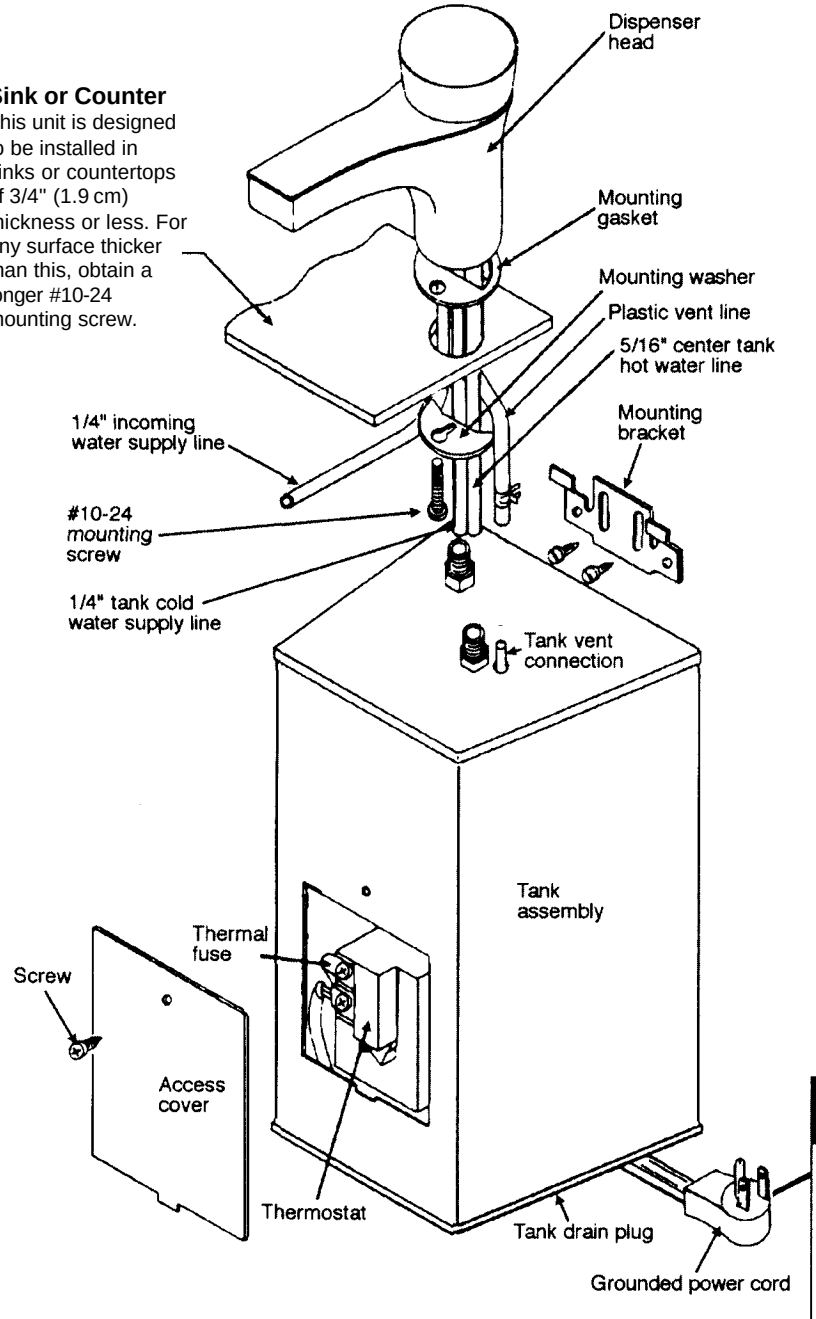
Insulation
Meets UL 94HF-1 flammablity specification

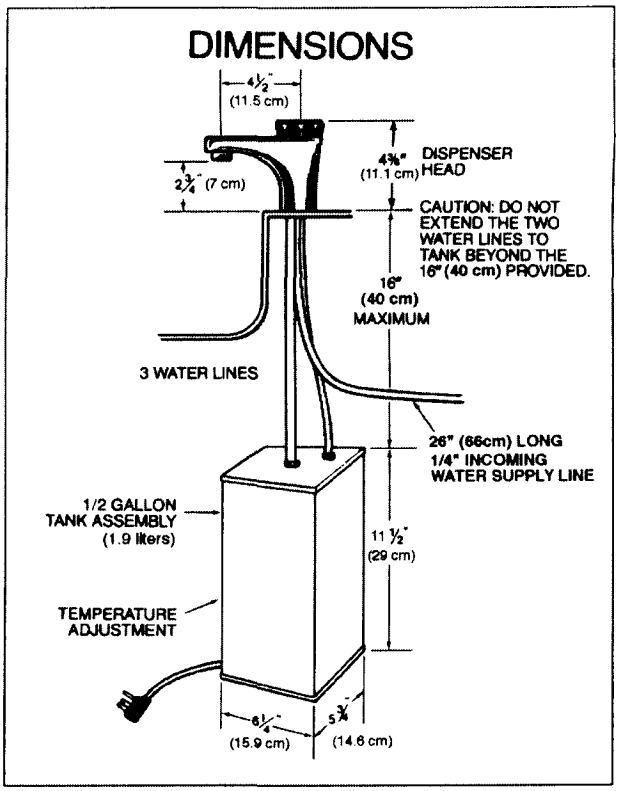
Valve
Instant, self-closing

Shipping weight
9 lbs. (4 kg.)

Sink or Counter

This unit is designed to be installed in sinks or countertops of 3/4" (1.9 cm) thickness or less. For any surface thicker than this, obtain a longer #10-24 mounting screw.




DIMENSIONS
4½" (11.5 cm)
4⅜" (11.1 cm)
DISPENSER HEAD
2¾" (7 cm)
CAUTION: DO NOT EXTEND THE TWO WATER LINES TO TANK BEYOND THE 16" (40 cm) PROVIDED.
16" (40 cm) MAXIMUM
3 WATER LINES
26" (66cm) LONG 1/4" INCOMING WATER SUPPLY LINE
1/2 GALLON TANK ASSEMBLY (1.9 liters)
11½" (29 cm)
TEMPERATURE ADJUSTMENT
6¼" (15.9 cm)
5¾" (14.6 cm)

⚠WARNING

Electric Shock Hazard

- Disconnect power before installing or servicing unit
- Use only a properly grounded and polarized electric outlet.

Service/Maintenance Instructions

Adjusting Temperature

⚠WARNING

Electric shock hazard

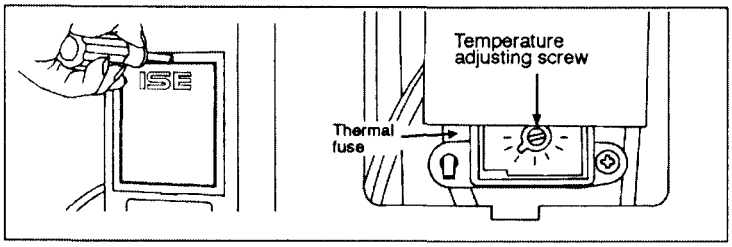
- To prevent electrical shock, disconnect power before removing access cover to adjust or service the thermostat.

Scalding hazard

- Do not allow water to boil. May result in severe burns.

Fire/product damage

- Do not remove or alter the thermal safety fuse.
- If thermal fuse is open contact your ISE Authorized Service Center.



The thermostat is pre-set at the factory. If a thermostat adjustment is required, unplug the power cord and remove the screw and access cover. Insert a small screwdriver in the slot of the thermostat adjusting screw. Turn clockwise 1/2 notch to increase the water temperature and counterclockwise 1/2 notch to decrease the water temperature.

replace the access cover and reconnect electric power. Draw 3 or cups of water and allow unit to heat. Repeat the process until desired temperature is reached. **Do not allow water to boil.**

What to do if something goes wrong

1. If the dispenser's flow of water slows or stops, make sure the water supply valve is not plugged or turned off. To unplug the valve, turn it all the way off and then open it all the way. This may dislodge any foreign material. If this does not work, then unplug the power cord and contact your service center.
2. Be sure dispenser is plugged firmly into a properly grounded outlet.
   Check that fuses and circuit breakers are working. Reread instruction booklet to assure that you are using correct operating procedure. Many unnecessary service calls result in the service agent doing what the owner can do for himself.
3. Contact your local authorized service center. For the location of your nearest factory authorized service center call 1-800-558-5700 USA (1-800-367-9811 Canada).
4. Write to us if a satisfactory solution Is not reached in the steps above. Our address is shown below.

IN-SINK-ERATOR DIVISION
EMERSON ELECTRIC CO.
4700 21st STREET
RACINE, WIS., 53406-5093

What if water is dripping from the spout?

If water drips from the spout, draw 2 or 3 cupfuls while unit is heating. This will drain any water out of the unit's expansion chamber. If water still drips prior to the automatic thermostat shutting off (you can hear it), turn thermostat to a slightly lower temperature setting. See thermostat adjustment procedure at left.

If the water pressure occasionally drops below 20 pounds per square inch (138kPa), the expansion chamber of the tank may not be draining properly. In such a case, water may drip from the spout until the incoming water is hot enough to turn off the thermostat. As soon as adequate water pressure is restored, the next drawing of water will clear the expansion chamber. Occasional drops in water pressure will not harm the operation of your unit.

NOTE: Use only mild cleaners to clean the dispenser spout and plastic components. Use of cleaning agents containing acids, alkalines and organic solvents will result in deterioration of plastic components.

Full One-Year Warranty

Beginning from the date of installation through one year of use in your home, we will repair or replace at no charge defects in material or workmanship which appear in the dispenser. If your dispenser is replaced rather than repaired, the warranty on the new unit shall be for the duration of the remaining portion of the original dispenser's warranty. Please call the nearest Factory *Authorized* Service Center when service is needed.

For the location of your nearest factory authorized service center, call this toll free number: 1-800-558-5700 USA (1-800-367-9811 Canada).

This full one-year warranty applies only if the unit is installed in accordance with these installation instructions, is used on circuits and currents specified, and has had normal use and service.

The foregoing warranty does not apply to damage or inoperation resulting from accident, alteration, misuse, abuse, improper installation, installation not in accordance with these instructions or local electrical and/or plumbing codes or shows evidence of having been started up "dry". We do not assume any responsibility for consequential damage.

Part Number 42752